

538,231

Rec'd PCT/750 09 JUN 2005

(12) INTERNATIONAL PUBLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

10/538231

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 June 2004 (24.06.2004)

PCT

(10) International Publication Number
WO 2004/053054 A2

(51) International Patent Classification⁷: C12N

(21) International Application Number:
PCT/IL2003/001040

(22) International Filing Date: 9 December 2003 (09.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/431,728 9 December 2002 (09.12.2002) US

(71) Applicant (for all designated States except US): NATS-
PEARS LTD. [IL/IL]; 2a Katzir Street, Ramat Gan 52656
(IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MANDELBOIM,
Ofer [IL/IL]; 58 Hayarden Street, 73142 Shoam (IL).
PORGADOR, Angel [IL/IL]; 11 Tavlan Street, Lehavim
85338 (IL).

(74) Agent: WEBB, Cynthia; Webb & Associates, P.O. Box
2189, Rehovot 76121 (IL).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,
CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,
SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: NK CELL RECEPTOR CONJUGATES FOR TREATING MALIGNANCIES

(57) Abstract: The present invention relates generally to compositions useful in therapies involving the selectiv
tumor cells in vivo. In particular, this invention relates to a conjugate which comprises a target recognition seg
cytotoxic segment. The target recognition segment comprises a receptor specific to NK cells, wherein the recep
ligand expressed on the surface of a tumor cell, and the active segment comprises an agent capable of exer
on the tumor cell. The target recognition segment derived from the natural killer receptor NKp30 has been
effective in vivo.

WO 2004/053054 A2